

أسئلة المدمر 2021

Good Luck

- Put your ID card on your desk
- You are not allowed to leave
- Cheating is strictly prohibited

You are being supervised

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Timed Test

This test has a time limit of 1 hour. This test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test. Your answers are saved automatically.

Remaining Time: 59 minutes, 33 seconds.

Question Completion Status:

⚠ Moving to another question will save this response.

Question 1

Describe 2 ways of simplifying a Boolean expression described in a truth table.

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

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Exam Duration: 60 Minutes

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28/10/2021 at 4:30 PM

Questions Type

MCQ

T/F

Essay

Marking Scheme

Number of questions

10 (10x0.5=5 marks)

10 (10x0.5=5 marks)

5 (5x3=15 marks)

Total : 25 marks

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Question 2

The value of conversion of (0.6875) in base 10 to binary is _____

- ☐ (1011)
- ☐ (1101)
- ☐ (0.1011)
- ☐ (0.1101)

⚠ Moving to another question will save this response.

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- Display Video

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Course Title:

Digital Logic

You are being supervised

Exam Duration: 60 Minutes

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28/10/2021 at 8:30 PM

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Remaining Time: 58 minutes, 48 seconds.

Question Completion Status:

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Question 4

"This establishes the two identity elements, 1 for (+) and 0 for (.)"

- ☐ True
☐ False

⚠ Moving to another question will save this response.

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Remaining Time: 58 minutes, 37 seconds.

Question Completion Status:

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Question 5

Literal is a single variable within a term that may or may not be complemented.

- ☐ True
- ☐ False

⚠ Moving to another question will save this response.

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Question 6

Adjacency between cells in K-maps is related to grey code.

- ☐ True
☐ False

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Question 7

The complexity of the logic gate level design depends on the complexity of the Boolean expression.

- ☐ True
☐ False

⚠ Moving to another question will save this response.

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Question 8

"Which of the following Boolean equations is in the form of product of maxterms of the function $F(A, B, C)$?"

☐ $F = (A'B'C)(ABC)(ABC)$

☐ $F = (A'+B+C')(A'+C)(A+B'+C)$

☐ $F = (A+B+C)(A'+B+C)(A+B'+C)$

☐ $F = A'B'C + A'BC' + A'B'C'$

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Question Completion Status:

⚠ Moving to another question will save this response.

Question 9

"The decimal number 326 is represented in BCD with 9 bits, 011 010 110, with each group of three bits representing one decimal digit."

- ☐ True
☐ False

⚠ Moving to another question will save this response.

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T/F

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Remaining Time: 56 minutes, 55 seconds.

Question Completion Status:

⚠ Moving to another question will save this response.

Question 10

"After applying the adequate theorems, the simplified expression of $F = X'Z + XZ + Y(X'Z) + Y(XZ) + Y(XZ)$

☐ $X'Z + XZ$

☐ $Y(X'Z) + Y(X'Z) + Y(XZ) + Y(XZ)$

☐ $YZ' + XZ$

☐ Z

⚠ Moving to another question will save this response.

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Remaining Time: 55 minutes, 57 seconds.

Question Completion Status:

⚠ Moving to another question will save this response.

Question 11

_____ is the complement of the function: $f = a'bc' + a'b'c$.

- ☐ $(a' + b' + c')(a' + b' + c')$
- ☐ $(a + b' + c)(a + b + c')$
- ☐ $(a'b'c) + (a'b'c')$
- ☐ $(a'b'c)(a + b + c')$

⚠ Moving to another question will save this response.

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Exam Duration: 60 Minutes

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28/10/2021 at 8:38 PM

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Question Completion Status:

⚠ Moving to another question will save this response.

Question 12

Using 0s in K-map for the function F will result in _____

- ☐ sum of product of F
- ☐ product of sum of F
- ☐ sum of product of the complement of F
- ☐ product of sum of the complement of F

⚠ Moving to another question will save this response.

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Digital Logic

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Remaining Time: 55 minutes, 35 seconds.

Question Completion Status:

→ ⚠ Moving to another question will save this response.

Question 13

Any Boolean function can be implemented using XOR function.

☐ True

☐ False

→ ⚠ Moving to another question will save this response.

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Warnings appear when **half the time, 5 m**

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Multiple Attempts: Not allowed. This test can only be taken once.

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Remaining Time: 54 minutes, 42 seconds.

Question Completion Status:

⚠ Moving to another question will save this response.

Question 14

Using Boolean Algebraic manipulations, minimize the following function to minimum number of literals in sum of products representation. Show your work clearly using only one step at a time.

$$F = A'B + B'C + AB'C + AB$$

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

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ENG

Exam Duration: 60 Minutes

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Questions Type

MCQ

T/F

Essay

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Question Completion Status:

⚠ Moving to another question will save this response.

Question 15

The K-map for a function with 3 variables contains _____

- ☐ 3 squares
- ☐ 6 squares
- ☐ 8 squares
- ☐ 9 squares

⚠ Moving to another question will save this response.

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Question Completion Status:

⚠ Moving to another question will save this response.

Question 16

$X \oplus Y = XY' + X'Y$ which means X or Y but not both.

☐ True

☐ False

⚠ Moving to another question will save this response.

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Question Completion Status:

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Question 17

The terms in the k-map are arranged monotonically (in an increasing order of value).

☐ True

☐ False

⚠ Moving to another question will save this response.

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Question Completion Status:

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Question 18

"Using odd parity for error detection the value of X in (0010 1110 1011 110X) should be 0."

- ☐ True
- ☐ False

⚠ Moving to another question will save this response.

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Question 19

Which of the following is not a Boolean algebra property?

- ☐ $a + (b * c) = (a + b) * (a + c)$
- ☐ $1 * a = a * 1 = a$
- ☐ $(ab)' = a' + b'$
- ☐ $a*(b+c) = (a+b)*(a+c)$

⚠ Moving to another question will save this response.

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Exam Duration: 60 Minutes

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20/10/2021 at 8:35 PM

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Question Completion Status:

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Question 20

Which of the following is considered a universal gate?

- ☐ NOR
- ☐ XOR
- ☐ OR
- ☐ XNOR

⚠ Moving to another question will save this response.

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Question 21

In this k-map all the following are considered adjacent except _____

m_0	m_1	m_3	m_2
m_4	m_5	m_7	m_6

- ☐ "m2, m4"
- ☐ "m2, m4, m0, m6"
- ☐ "m0, m1, m2, m3"
- ☐ "m4, m6"

⚠ Moving to another question will save this response.

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Question 22

The complement of a function expressed as the sum of minterms equals the sum of minterms missing from the original function.

☐ True

☐ False

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ENG

سواء صافية 31°C

You are being supervised

Display Video

Timed Test

This test has a time limit of 1 hour. This test

Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test.
Your answers are saved automatically.

Remaining Time: 51 minutes, 48 seconds.

Question Completion Status:

⚠ Moving to another question will save this response.

Question 23

Write down the minterms m_5 and m_7 in a 3 variables Boolean expression (x, y, z). Simplify the boolean expression $F = m_5 + m_7$ by using the basic theorems and axioms of Boolean algebra. (don't use the K.Map simplification).

$x \ y \ z$	00	01	11	10
0	m_0	m_1	m_3	m_2
1	m_4	m_5	m_7	m_6

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

B

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HUAWEI

Exam Duration: 60 Minutes

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28/11/2021 at 8:35 PM

Questions Type

MCQ

T/F

Essay

Marking Scheme

Number of questions

10 (10x0.5 =5 marks)

10 (10x0.5=5 marks)

5 (5*3=15 marks)

Total : 25 marks

Instructions

- You are not allowed to use Smartphones, Bluetooth headsets, Smart Watches, etc. except laptop or personal computer for your exam.
- Put your ID card on your desk with your photo face up.
- You are not allowed to leave the examination room during the exam.
- Cheating is strictly prohibited, and stern action will be taken.

Timed Test

This test has a time limit of 1 hour. This test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test. Your answers are saved automatically.

Remaining Time: 51 minutes, 09 seconds.

Question Completion Status:

⚠ Moving to another question will save this response.

Question 24

Using even parity scheme for error detection which of the following is having an error?

- ☐ 10110100
- ☐ 11101010
- ☐ 11100111
- ☐ 10101010

⚠ Moving to another question will save this response.

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Remaining Time: 50 minutes, 51 seconds.

Question Completion Status:

Question 25

Use K-map to simplify the following function with don't care conditions: $F(x, y, z) = \sum(0, 1, 4, 5, 6)$; $d(x, y, z) = \sum(2, 3)$

x\yz	00	01	11	10
0	m0 (1)	m1 (1)	m3 (x)	m2 (x)
1	m4 (1)	m5 (1)	m7	m6 (1)

- Formulate the groups and give their simplified Boolean expression.
- Write the final simplified Boolean expression.

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

B **I** **U** **S**

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p

Click **Submit** to complete this assessment.

HUAWEI

أسئلة المديترم الأجوبة غير صحيحة
Midterm Beware Answers may not Correct

أسئلة الدفعة الأولى 2021

Any Boolean function can be implemented using XOR function.

☐ True

☐ False

False

The complement of a function expressed as the sum of minterms equals the sum of minterms missing from the original function.

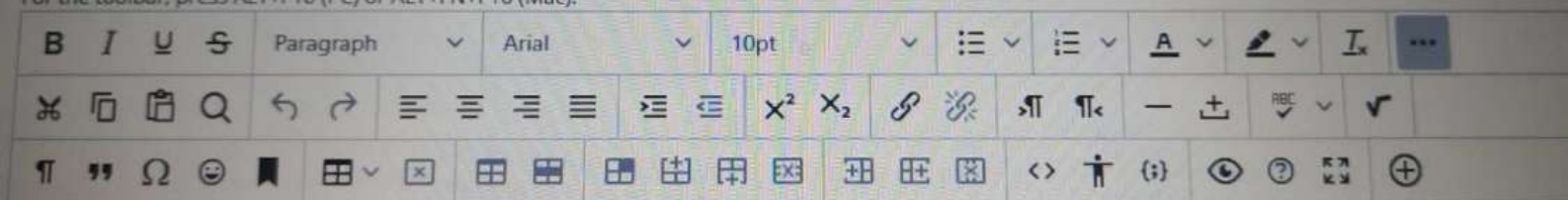
- ☐ True
- ☐ False

True

Write down the minterms m_5 and m_7 in a 3 variables Boolean expression (x, y, z). Simplify the boolean expression $F=(m_5+m_7)$ by using the basic theorems and postulates of Boolean Algebra (don't use the K.Map simplification).

$x \backslash yz$	00	01	11	10
0	m_0	m_1	m_3	m_2
1	m_4	m_5	m_7	m_6

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



مقالتي

?Using even parity scheme for error detection which of the following is having an error

10110100 ☐

11101010 ☐

11100111 ☐

10101010 ☐

C

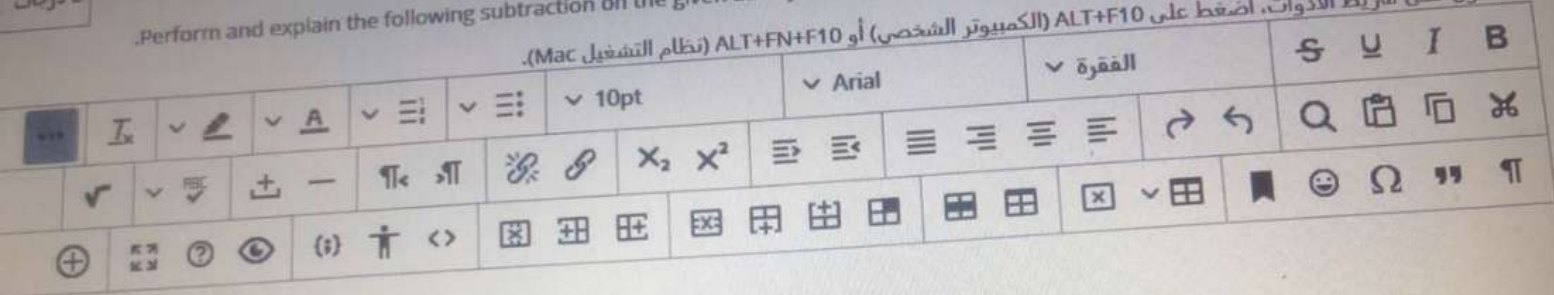
"After applying the adequate theorems, the simplified expression of $F = X'YZ + X'YZ + XY'Z + XYZ$ is _____."

- ☐ $X'Z + XZ$
- ☐ $Y(X'Z) + Y(X'Z) + Y(XZ) + Y(XZ)$
- ☐ $YZ' + XZ$
- ☐ Z

D

→ ⚠ Moving to another question will save this response.

Perform and explain the following subtraction on the given binary numbers using the 2's complement of the subtrahend 10011-10010
 للحصول على شريط الأدوات، اضغط على ALT+F10 (الكمبيوتر الشخصي) أو ALT+FN+F10 (نظام التشغيل Mac).



مقالتي

In this k-map all the following are considered adjacent except _____.

m_0	m_1	m_3	m_2
m_4	m_5	m_7	m_6

A

- ☐ "m2, m4"
- ☐ "m2, m4, m0, m6"
- ☐ "m0, m1, m2, m3"
- ☐ "m4, m6"

The K-map for a function with 3 variables contains _____.

- ☐ 3 squares
- ☐ 6 squares
- ☐ 8 squares
- ☐ 9 squares

C

Describe 2 ways of simplifying a Boolean expression described in a truth table.

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



مقالتي

.Adjacency between cells in K-maps is related to grey code

صواب ☐

خطأ ☐

True

Activa

Go to Se

يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد. ⚠



The value of conversion of (0.6875) in base 10 to binary is _____.

- ☐ (1011)
- ☐ (1101)
- ☐ (0.1011)
- ☐ (0.1101)

C

0.5 درجہ

"The decimal number 326 is represented in BCD with 9 bits, 011 010 110, with each group of three bits representing one decimal digit"

صواب ☐

خطأ ☐

False

يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد. ⚠

Use K-map to simplify the following function with don't care conditions: $F(x, y, z) = \sum(0, 1, 4, 5, 6)$; $d(x, y, z) = \sum(2, 3)$

10	11	01	00	$x \backslash yz$
$m_2(x)$	$m_3(x)$	$m_1(1)$	$m_0(1)$	0
$m_6(1)$	m_7	$m_5(1)$	$m_4(1)$	1

.Formulate the groups and give their simplified Boolean expression -
 .Write the final simplified Boolean expression -

للحصول على شريط الأدوات، اضغط على ALT+F10 (الكمبيوتر الشخصي) أو ALT+FN+F10 (نظام التشغيل Mac).



مقالتي

.The terms in the k-map are arranged monotonically (in an increasing order of value)

○ صواب

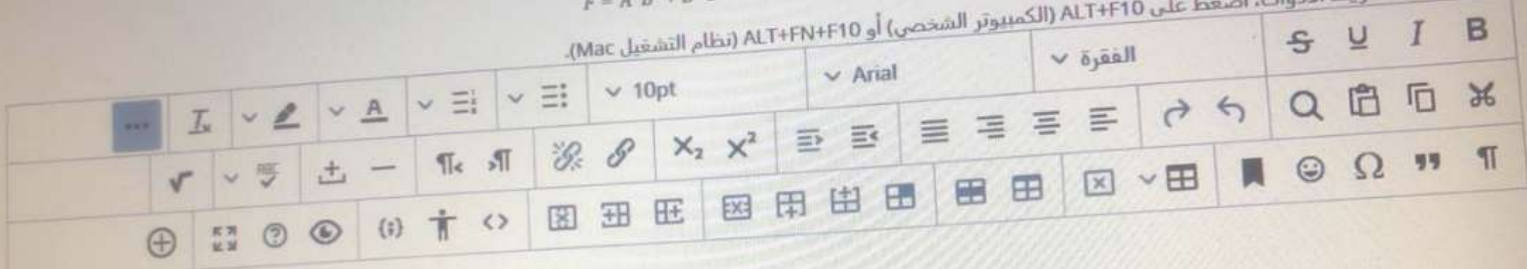
○ خطأ

True

Using Boolean Algebraic manipulations, minimize the following function to minimum number of literals in sum of products representation. Show your work clearly step by step indicating the used properties of Boolean Algebra

$$F = A'B' + B'C + AB'C' + AB$$

للحصول على شريط الأدوات، اضغط على ALT+F10 (الكمبيوتر الشخصي) أو ALT+FN+F10 (نظام التشغيل Mac).



مقالتي

$X \oplus Y = XY' + X'Y$ which means X or Y but not both

☐ صواب

☐ خطأ

True

Active
Go to S

?Which of the following is considered a universal gate

NOR ☐

XOR ☐

OR ☐

XNOR ☐

NOR

Activate W
Go to Se

QUESTION 1
"Using odd parity for error detection the value of X in (0010 1110 1011 110X) should be 0."

- ☒ True
- ☐ False

0.5 points

Save Answer

True

⏏ ⚠ Moving to another question will save this response.

Question 1 of 25

السؤال 7

"(.) This establishes the two identity elements, 1 for (+) and 0 for"

صواب ☐

خطأ ☐

True

يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد. ⚠️

Activate
Go to Set

Question 3

0.5 points

Save answer

_____ is the complement of the function: $f = a'bc' + a'b'c$.

- ☐ $(a' + b' + c')(a' + b' + c)$
- ☐ $(a + b' + c)(a + b + c)$
- ☐ $(a b' c) + (a b c)$
- ☐ $(a b' c)(a + b + c)$

C

سؤال 5

The complexity of the logic gate level design depends on the complexity of the Boolean expression

☐ صواب

☐ خطأ

True

يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد. ⚠

Question 4

0.5 points

Save Answer

Which of the following is not a Boolean algebra property?

- ☐ $a + (b * c) = (a + b) * (a + c)$
- ☐ $1 * a = a * 1 = a$
- ☐ $(ab)' = a' + b'$
- ☐ $a*(b+c) = (a+b)*(a+c)$

D

⚠ Moving to another question will save this response.

Question 4 of 25

السؤال 2

- _____ Using 0s in K-map for the function F will result in
- sum of product of F ☐
 - product of sum of F ☐
 - sum of product of the complement of F ☐
 - product of sum of the complement of F ☐

D

يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد. ⚠

Active
Go to S

السؤال 3

.Literal is a single variable within a term that may or may not be complemented

☐ صواب

☐ خطأ

True

⚠️ يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد.

⚠️ يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد.

السؤال 4

"Which of the following Boolean equations is in the form of product of maxterms of the function $F(A,B,C)$ "

$F = (A'B'C)(ABC')(ABC)$ ☐

$F = (A'+B+C')(A'+C)(A+B'+C)$ ☐

$F = (A+B+C)(A'+B+C)(A+B'+C)$ ☐

$F = AB'C + A'BC' + A'B'C$ ☐

C

⚠️ يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد.